



CRATE

G-600H AMPLIFIER

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We would like to take this opportunity to thank you for selecting a Crate product, and to tell you of our commitment to the design and manufacture of only the finest musical instrument amplification equipment; built for you, the musician.

You have purchased one of the most innovative sound amplification devices available today. Your Crate amplifier gives you more performance features than ever before; features that you, the musician, have asked for.

Your Crate amplifier is an American product, manufactured at our factory in St. Louis, Missouri. Only the finest available components and materials are used in the manufacture of each amplifier.

All Crate amplifiers are subject to seven or more inspection and testing stops to assure you of a high quality product. The final test for each amp is conducted by a trained musician with the instrument the amp was designed for. Any unit that does not meet the standards of his discriminating ear will not be passed.

Since all Crate products are designed, developed, and manufactured through the cooperative efforts of engineers and professional musicians, the end result is a product that responds to the musician's audio requirements, and a product that will serve your needs for years to come.

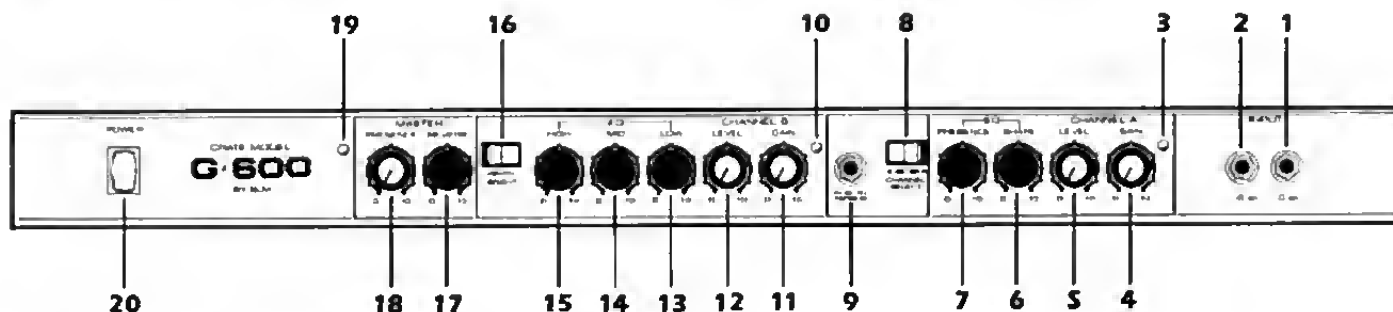
G-600 TECHNICAL SPECIFICATIONS

Output Power Rating	60 watts RMS @ 5% THD/4 ohm load—120 VAC line 40 watts RMS @ 5% THD/8 ohm load—120 VAC line 24 watts RMS @ 5% THD/16 ohm load—120 VAC line
Speaker Cabinet Options	GC412-R: 4 12" Celestion G-12L35 speakers in a straight-front, infinite baffle enclosure Power Handling 140 watts RMS @ 8 ohms 35" H x 31" W x 15" D 90 lbs. GC412-S: 4 12" Celestion G-12L35 speakers in a slope-front, infinite baffle enclosure Power Handling 140 watts @ 8 ohms 35" H x 31" W x 15" D 90 lbs.
Bass Control	15 db range @ 80 Hz
Mid Control	8 db @ 700 Hz
Treble Control	15 db @ 5 KHz
Presence Control	Channel A: 10 db range @ 5 KHz Master: 8 db range @ 2 KHz
Bright Switch	8 db boost @ 6 KHz
Input Impedance	220 K ohms/"0 db" Input 44 K ohms/"-6 db" Input
Maximum Input Signal Level Accepted	4 volts, peak to peak/"0 db" Input 8 volts, peak to peak/"-6 db" Input
Total System Gain	Channel A: 85 db Channel B: 60 db
Signal to Noise Ratio	Channel A: 55 db Channel B: 65 db
Input Power Requirements	120 VAC, 60 Hz, 200 watts max
Cabinet Size and Weight	11-5/8" H x 30-3/4" W x 11" D 35 lbs.

CAUTION: To reduce the risk of electric shock, do not remove chassis. No user serviceable parts inside. Refer servicing to qualified service personnel. To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

Specifications subject to change without notice.

FEATURES and FUNCTIONS



FRONT PANEL—INPUT

1. **0 dB INPUT JACK:** This Input accepts a standard 1/4" phone plug and is suitable for any low to line level signal source such as an electric guitar.
2. **-6 dB INPUT JACK:** This Input also accepts a standard 1/4" Jack but is padded 6 dB for hotter inputs such as tape decks or guitars with hot pickups. If both Jacks are used, this Input is not padded and will be equal to the 0 dB Input Jack.

CHANNEL A CONTROLS

3. **CHANNEL A INDICATOR:** When this red L.E.D. is lit, Channel A is active.
4. **GAIN CONTROL:** This control sets the amount of gain for channel A and is used to vary the amount of distortion. Minimal distortion is achieved with this control rotated counterclockwise. A fully clockwise setting creates maximum distortion.
5. **LEVEL CONTROL:** The overall volume of Channel A is controlled with this knob and should be used in conjunction with the GAIN CONTROL (4).
6. **SHAPE CONTROL:** This is the primary tone control for Channel A. Set at half rotation, a sound emphasizing midrange is achieved. When rotated full clockwise, a "heavy textured" sound is created, with extra boost in lows and highs. Rotated fully counterclockwise, a lighter textured sound is produced, with less low end thickness and more highs.
7. **PRESENCE CONTROL:** This knob affects the upper harmonics of Channel A. When rotated to the

right, the Presence Control boosts upper harmonics and adds "bite" or "edge" to the sound, while turning the knob fully to the left will deliver a more mellow tone.

8. **CHANNEL SELECT SWITCH:** This switch is used to select between Channel A and Channel B. When using the optional footswitch, this switch should be in the Channel A position.
9. **FOOTSWITCH JACK:** This Jack is to be used with the Channel Selector/Reverb footswitch. When the footswitch is in use, the front panel channel selector switch (8) should be in the Channel A position.

CHANNEL B CONTROLS

10. **CHANNEL B INDICATOR:** When this green L.E.D. is lit, Channel B is active.
11. **GAIN CONTROL:** This control sets the gain of Channel B. Higher (clockwise) settings may be desired if the guitar has a weak output or when an overdriven, distorted sound is needed. Lower settings may be wanted for a hotter guitar, particularly for achieving a clean sound.
12. **LEVEL CONTROL:** The overall volume of Channel B is controlled by this knob, which is used in conjunction with the Gain Control (11). Start with a low setting of the Level Control and adjust the Gain Control (11) for the desired clean or overdriven sound. Turn the Level Control up to the volume wanted.
13. **LOW CONTROL (Bass):** The desired amount of "Bottom" or "Warmth" may be increased or decreased with this knob.

14. **MID CONTROL (Mid):** The tonal qualities of the midrange are very important to a good guitar sound. This knob can "thin-out" the sound when turned down, or "fatten-up" the tone when larger amounts are used.

15. **HIGH CONTROL (Treble):** This knob will affect the upper harmonic range of the guitar. Boosting it sharpens or adds crispness to the sound. For additional effect, use this control in conjunction with the Bright Switch (16).

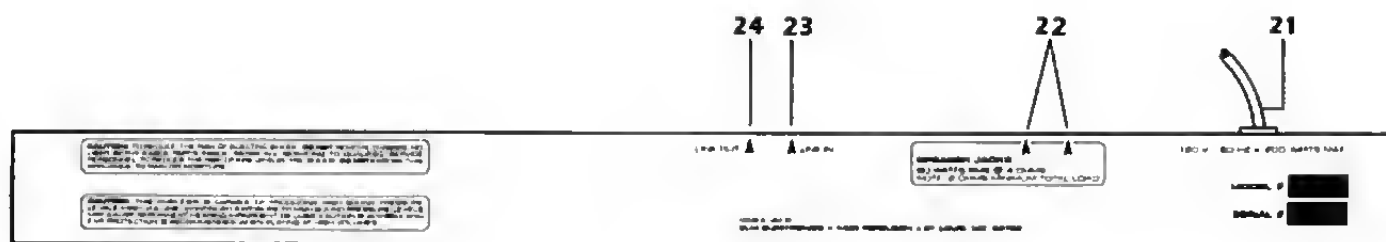
16. **BRIGHT SWITCH:** This switch affects the brilliance of the guitar's sound by adding additional "bite" or sharpness. This switch affects only Channel B.

MASTER SECTION

17. **REVERB CONTROL:** This control allows the player to alter the apparent acoustical qualities of a room. The sound can be altered from very "Flat" or "Dry" when the control is turned off, to that of a concert hall when used in larger amounts.
18. **PRESENCE CONTROL:** This control affects the upper harmonics of both channels. Full clockwise rotation enhances overall brilliance of the sound, while counterclockwise rotation creates a more subtle, mellow sound.

POWER

19. **ON/OFF LED INDICATOR:** The amplifier is on when this L.E.D. is lit.
20. **ON/OFF SWITCH (POWER):** This is a two position switch, the down position will turn the unit on, while the up position off.



REAR PANEL

- 21. POWER CORD:** Be sure the amplifier is properly plugged into a safely wired AC outlet before use.
- 22. SPEAKER JACKS:** These jacks are used for speaker hookup. The G-600H speaker jacks are connected in parallel so when two speaker cabinets are connected, (one to each jack), the total load

will be lower than either speaker alone. Do not connect speakers resulting in a total load of less than 2 ohms.

- 23. LINE IN JACK:** This jack is used as a direct input to the power amp. Plugging into this jack disconnects the direct (normal) connection between the preamp and power amp. The Line Out Jack may then be

used with the Line In Jack as an effects loop.

- 24. LINE OUT JACK:** This jack is used to link the G-600H to additional amplifiers or to connect the amp to a tape recorder. Simply run a cable from the output of this jack to the input of another amplifier or tape deck. External speakers cannot be hooked up to this jack.

WARNING: NEVER PLUG HEADPHONES INTO EITHER SPEAKER JACK — YOU COULD SUFFER PERMANENT LOSS OF HEARING OR DAMAGE YOUR HEADPHONES.

STACKING CABINETS—The G-600H, GC412-S, and GC412-R are heavy, professional-grade units, and are designed to lock together as a "stack". When stacking units, certain precautions should be taken to reduce the chance of one or more units falling, possibly causing injury or damage to equipment. Be sure the caster wheels on the GC412-S are retained in the caster recesses provided on the GC412-R, and be sure the stack-loc corner protectors on the GC412-S interlock securely with those on the G-600H.

CAUTION: To reduce the possibility of damage or injury due to stacked units tipping or falling, always route and/or anchor your guitar cord so that no pull can be exerted directly on the amplifier head or speaker cabinets. Never stack cabinets on a surface that is not level. Never stack cabinets or amplifier heads that do not securely interlock. Never stack another speaker cabinet on top of a GC412-S slopefront cabinet.

LIMITED WARRANTY

SLM Electronics, a division of St. Louis Music Supply Company, warrants this electronic equipment for one (1) year from date of purchase to the original purchaser and is not transferable. This warranty includes defects in workmanship and materials within this one (1) year period except for tubes, meters and speakers covered separately. Tubes and meters will carry a 90 day warranty.

Excluded from this warranty are defects caused by wear and tear, misuse, neglect, alterations or modifications, or any act of nature. Such determinations will be made by SLM Electronics.

All parts costs will be borne by SLM Electronics within the warranty period. Labor costs will be covered within this warranty period according to rate schedules established by SLM Electronics. Warranty service will be done either at SLM Electronics or an authorized field service center. Transportation charges involved in warranty service are the sole responsibility of the purchaser.

Speakers are guaranteed for ninety (90) days against manufacturing defects. Realizing that any speaker can be overloaded or misused causing failure, SLM will replace it with a speaker of the same type at a price equal to one-half of the then current suggested list price of the new speaker for life from date of registration, regardless of reason.

This warranty only applies if this piece of equipment was purchased from an authorized dealer. If this piece of equipment is to be returned to SLM Electronics, it must be accompanied with an authorized dealer's instructions as to needed repairs and a SLM Electronics return authorization.

There are no other warranties expressed or implied other than those stated in this warranty. This warranty registration card must be filled out and returned to us within ten (10) days after purchase. We reserve the right to repair or replace this piece of equipment at our option.

SLM ELECTRONICS division of **ST. LOUIS MUSIC**
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